

## IN THE UNITED STATES PATENT &amp; TRADEMARK OFFICE

Applicant: Dingwei LU

U.S. Serial No.: 10/519,896

International Application No.: PCT/CN2003/00507

International Filing Date: June 30, 2003

For: A MOULDING PROCESS OF COMPOSITE MATERIAL INCLUDING HIGH-THERMAL CONDUCTOR AND ROOM-TEMPERATURE MAGNETIC REFRIGERANT

Date: February 1, 2005

Mail Stop PCT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This invention relates to a molding process of composite material including high-thermal-conductor and room-temperature magnetic refrigerant comprises the steps of nesting magnetic refrigerant with high-thermal-conductor and connecting them mutually, especially making the room-temperature magnetic-thermal-conductor into sheet, strip or filament, inserting the high-thermal-conductors' sheet, strip or filament in the room-temperature magnetic refrigerant's sheet or filament and connecting them fully. This invention has solved the application of the room-temperature magnetic-thermal-conductor, particularly the application of the room-temperature magnetic-thermal-conductor which is lower thermal-conductor, easier oxidation and powdering. The invention utilizes the high thermal-conductor to solve the problem of room-temperature magnetic refrigerant which is poor in conventional heat exchange, meanwhile decreases the loss of the magnetic-thermal effect.

As authorized and encouraged under 37 C.F.R. §1.97-1.99, applicant hereby cites as a means of complying with the duty of disclosure set forth in 37 C.F.R. §1.56, the following patents and/or documents, required copies enclosed, which the Examiner should consider with respect to the above-identified United States Patent Application:

U.S. DOCUMENTS		
PATENT/DOCUMENT NO.	DATE	INVENTOR
4,985,072	January 15, 1991	Sahashi et al.
5,124,215	June 23, 1992	Hashimoto
FOREIGN DOCUMENTS		
PATENT/DOCUMENT NO.	DATE	COUNTRY
1090313A	August 3, 1994	CN

In accordance with 37 CFR 1.98(a)(2)(i) only the foreign and non-patent documents are required for the express purpose of providing the Patent and Trademark Office with an ample opportunity to evaluate the same and to arrive at an independent assessment of its materiality, if any, with regard to the examination of the application.

An examination of the present application considering the above documents is requested.

Respectfully submitted,

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Form PTO-1449 U.S. Department of Commerce Patent and Trademark Office		Atty. Docket No.: CNIP-B-PCT-US	Serial No.: 10/519,896
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)		Applicant: Dingwei LU	
		Filing Date:	Group:

## U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing date if appropriate
	AA	4,985,072	January 15, 1991	Sahashi et al.			
	AB	5,124,215	June 23, 1992	Hashimoto			
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

## FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation Yes No
	AL	1090313A	August 3, 1994	CN			X
	AM						X
	AN						X
	AO						X
	AP						X

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR		
	AS		
	AT		

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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CERTIFICATE OF MAILING

Sir:

The undersigned hereby certifies that the attached **INFORMATION DISCLOSURE STATEMENT, PTO FORM-1449s, AND ONE FOREIGN CITED REFERENCE** were mailed to the Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, with sufficient first-class postage, no special handling, on February 1, 2005, before 5:00 PM, thereby ensuring that such document(s) will be in the hands of the U.S. Postal Service by the close of business this day.

Respectfully submitted,

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Enclosures: Return Postcard

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Information Disclosure Statement, Form PTO-1449,

Copy of One Foreign Reference